



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANT:** Alex Nugent  
**SERIAL NO.:** 10/730,708  
**FILED:** 12/08/2003  
**TITLE:** **ADAPTIVE NEURAL NETWORK UTILIZING NANOTECHNOLOGY-BASED COMPONENTS**

**EXAMINER:** Peter Coughlan  
**GROUP:** 2129  
**ATTY DKT NO.:** 1000-1214

**CERTIFICATE OF TRANSMISSION BY 1<sup>st</sup> CLASS MAIL**

**Please forward all correspondence to:**  
ORTIZ & LOPEZ, PLLC  
Patent Attorneys  
P.O. Box 4484  
Albuquerque, NM 87196-4484

*I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on **September 26, 2006**.*

*Kermit Lopez*

Kermit Lopez

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENTS AND REPLY TO FINAL OFFICE ACTION  
AND REQUEST FOR CONTINUED EXAMINATION (RCE)  
UNDER 37 C.F.R. § 1.114**

Dear Sir:

In response to the Office Action dated July 19, 2006 and the Advisory Action dated September 20, 2006 in the above captioned matter, please enter the following amendments and remarks:

Amendments to claims begin on Page 2 of this Paper.

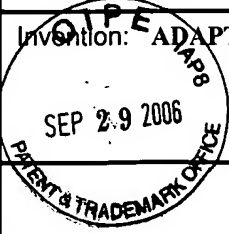

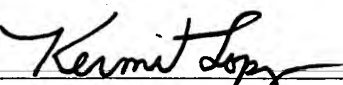
Remarks begin on Page 12 of this Paper.

Exhibits and an RCE are submitted herewith.

10/02/2006 HDEMESS1 00000099 10730708

02 FC:2201

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<b>AMENDMENT TRANSMITTAL LETTER (Small Entity)</b>				Docket No. <b>10/730,708</b>	
Applicant(s): <b>Alex Nugent</b>					
Application No. <b>10/730,708</b>	Filing Date <b>12/08/2003</b>	Examiner <b>COUGHLAN, PETER D</b>	Customer No.	Group Art Unit <b>2129</b>	Confirmation No. <b>3983</b>
Invention: <b>ADAPTIVE NEURAL NETWORK UTILIZING NANOTECHNOLOGY-BASED COMPONENTS</b>					
 <b>COMMISSIONER FOR PATENTS:</b>					
Transmitted herewith is an amendment in the above-identified application.					
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27					
The fee has been calculated and is transmitted as shown below.					
<b>CLAIMS AS AMENDED</b>					
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	20 -	20 =	0	x \$25.00	\$0.00
INDEP. CLAIMS	4 -	3 =	1	x \$100.00	\$100.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT</b>					<b>\$100.00</b>
<input type="checkbox"/> No additional fee is required for amendment. <input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____ <input checked="" type="checkbox"/> A check in the amount of <b>\$100.00</b> to cover the filing fee is enclosed. <i>(Check No. _____)</i> <input type="checkbox"/> The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. <input type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16. <input type="checkbox"/> Any patent application processing fees under 37 CFR 1.17. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <b>WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</b>					
 _____ <i>Signature</i>			Dated: <b>September 26, 2006</b>		
<b>Kermit Lopez</b> <b>Registration No. 41,953</b> <b>ORTIZ &amp; LOPEZ, PLLC</b> <b>PO BOX 4484</b> <b>ALBUQUERQUE, NM 87196-4484</b>			I certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on <b>9/26/2006</b> _____ (Date)  _____ <i>Signature of Person Mailing Correspondence</i> <b>KERMIT LOPEZ</b> _____ <i>Typed or Printed Name of Person Mailing Correspondence</i>		
CC:					